



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

RAJIV RAMASWAMI, ET AL.

Application No.: 10/648,025

Filed: August 26, 2003

For: **METHOD AND APPARATUS FOR  
OPTICAL TO ELECTRICAL TO  
OPTICAL CONVERSION IN AN  
OPTICAL CROSS-CONNECT SWITCH**

Art Group: 2872

Examiner: Unassigned

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Some or all of the references listed on the enclosed PTO/SB/08 were previously identified in the parent application (Application No. 09/704,439, filed November 1, 2000) and copies of the references were furnished at that time. Accordingly, per 37 CFR §1.98(d)(1) additional copies of those references are not submitted herewith.

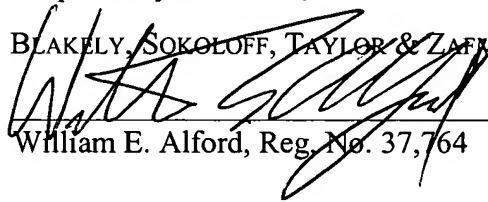
The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: December 04, 2003

  
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William E. Alford, Reg. No. 37,764

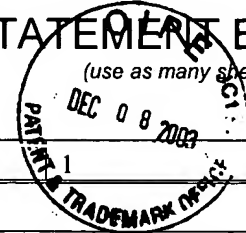
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Susan McFarlane

12-04-03

Date

Substitute for Form 1449A/PTO (Modified) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
				Application Number	10/648,025	
				Filing Date	August 26, 2003	
				First Named Inventor:	Rajiv Ramaswami	
				Group Art Unit	2872	
				Examiner Name	Unassigned	
Sheet 1	of 9			Attorney Docket Number	3239P081D	
<b>U.S. PATENT DOCUMENTS</b>						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Issue/ Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
		3,651,392		Frisch, et al.	3/21/1972	
		4,365,863		Broussaud	12/28/1982	
		4,369,523		Seki, et al.	1/18/1983	
		4,437,190		Rozenwaig, et al.	3/13/1984	
		4,470,154		Yano	9/4/1984	
		4,519,670		Spinner, et al.	5/28/1985	
		4,530,566		Smith, et al.	7/23/1985	
		4,563,774		Gloge	1/7/1986	
		4,580,873		Levinson	4/8/1986	
		4,612,670		Henderson	5/16/1986	
		4,634,239		Buhrer	10/6/1987	
		4,797,879		Habbab, et al.	1/10/1989	
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		4,843,382		Oda, et al.	6/27/1989	
		4,856,863		Sampsell, et al.	8/15/1989	
		4,859,012		Chon	8/22/1989	
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		4,897,830		Hill, et al.	1/30/1990	
		4,903,225		Brost	2/20/1990	
		4,982,446		Lord, et al.	1/1/1991	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
		<del>WO</del>	86/04205		PCT	07/17/86		
		<del>WO</del>	86/05649		PCT	09/25/86		
		<del>WO</del>	90/14734		PCT	11/29/90		
		<del>WO</del>	91/01603		PCT	02/07/91		
		<del>WO</del>	95/19689		PCT	07/20/95		
		<del>EP</del>	0 674 457	A2	Fujitsu	09/27/95		
		<del>EP</del>	0 721 275	A2	EPO	12/28/95		

Examiner Signature	Date Considered
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Sheet <b>2</b>	of	9		Attorney Docket Number	3239P081D

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		4,984,238		Watanabe, et al.	1/8/1991	
		5,035,482		ten Berge, et al.	7/30/1991	
		5,037,173		Sampsel, et al.	8/6/1991	
		5,157,652		Walker	10/20/1992	
		5,216,729		Berger, et al.	6/1/1993	
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		5,272,556		Faulkner, et al.	12/21/1993	
		5,299,044		Mosch, et al.	3/29/1994	
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		5,521,734		Frigo	5/28/1996	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
		✓ EP	0 752 794	A2	EPO	01/08/97		
		✓ EP	0 759 681	A2	EPO	02/26/97		
		✓ EP	0 809 384	A2	EPO	05/20/97		
		✓ WO	97/24822		PCT	07/10/97		
		✓ EP	0 857 000	A2	EPO	01/30/98		
		✓ EP	0 647 457	A3	Fujitsu	05/13/98		
		✓ WO	98/54863		PCT	05/27/98		

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		Number Code <sup>2</sup>	Kind (If known)			
		5,524,153		Laor	6/4/1996	
		5,535,293		Buchin	7/9/1996	
		5,539,328		Mirov, et al.	7/23/1996	
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		5,608,735		McCullough, et al.	3/4/1997	
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		5,825,877		Dan, et al.	10/20/1998	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
		<input checked="" type="checkbox"/> EP	0 849 906	A2	Fujitsu	06/24/98		
		<input checked="" type="checkbox"/> EP	0 898 440	A2	EPO	02/24/99		
		<input checked="" type="checkbox"/> GB	2347570	A	United Kingdom	03/03/99		
		<input checked="" type="checkbox"/> WO	99/13656		PCT	03/18/99		
		<input checked="" type="checkbox"/> WO	99/18751		PCT	04/15/99		
		<input checked="" type="checkbox"/> EP	0 910 138	A1	EPO	04/21/99		
		<input checked="" type="checkbox"/> EP	0 932 069	A1	EPO	07/28/99		

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## STATEMENT BY APPLICANT

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Sheet 4

of 9

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		5,825,949		Choy, et al.	10/20/1998	
		5,828,476		Bonebright, et al.	10/27/1998	
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		6,002,818		Fatehi, et al.	12/14/1999	
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		WO	99/40738		Tol Johannes Jacobus Gerardus	08/12/99		
		EP	0 938 244	A2	Fujitsu	08/25/99		
		WO	00/13210		PCT	09/09/99		
		WO	99/48323		PCT	09/23/99		
		EP	0 953 854	A1	EPO	11/03/99		
		WO	99/59272		PCT	11/18/99		
		WO	99/63374		Laor	12/09/99		

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		6,047,331		Medard, et al.	4/4/2000	
		6,069,924		Sudo, et al.	5/30/2000	
		6,072,612		Liou, et al.	6/6/2000	
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		6,097,858		Laor	8/1/2000	
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		6,198,571	B1	Yank	3/6/2001	
		6,207,949	B1	Jackel	3/27/2001	
		6,222,954	B1	Riza	4/24/2001	
		6,252,689	B1	Sharp	6/26/2001	
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		WO	99/63531		Laor	12/09/99		
		WO	99/66354		Laor	12/23/99		
		WO	99/67666		Laor	12/29/99		
		WO	00/04671		Laor	01/27/00		
		WO	00/13210	A2	Xros, Inc.	03/09/00		
		WO	00/13210	A3	Xros, Inc.	03/09/00		
		WO	00/20899		PCT	04/13/00		

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Attorney Docket Number	3239P081D

## OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		A. HIMENO, R. NAGASE, T. ITO, K.KATO AND M. OKUNO; Photonic Inter-Module Connector Using 8x8 Optical Switches for Near-Future Electronic Switching Systems; IEICE Transactions on Communications; E77-B (1994) February, No. 2, Tokyo, JP	
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		S. OKAMOTO, et al.; Optical Path Cross-Connect Node Architectures for Photonic Transport Network, Journal of Lightwave Technology, Vol. 14, No. 6, June 1996, pgs. 1410-1422.	
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		LAOR, H., et al., Performance of a 576x576 Optical Cross Connect, NFOEC-99.	
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Examiner  
SignatureDate  
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/648,025
Filing Date	August 26, 2003
First Named Inventor:	Rajiv Ramaswami
Group Art Unit	2872
Examiner Name	Unassigned
Attorney Docket Number	3239P081D

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## OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		✓ BISCHOFF, et al., Operation and Maintenance for an All-Optical Transport Network, IEEE Communications, Magazine, pp 136-142, 11/1996.	
		✓ LIN. et al., Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects, pp 525-527, 04/1998.	
		✓ KAUFMAN, et al., The Optical Internet, A New Network Architecture, pp 1-13.	
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		✓ PETER WONG & MARK YIN, An Economic Analysis for Core Optical Transport Networks.	
		✓ CRAIG LABOVITZ, ABHA AHUJA, FARNAM JAHANAIAAN, Experimental Study of Internet Stability and Backbone Failures, IEEE, pp 278-285, 1999.	
		None of Applications	
		were Recieve	

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